

## FIG.1A

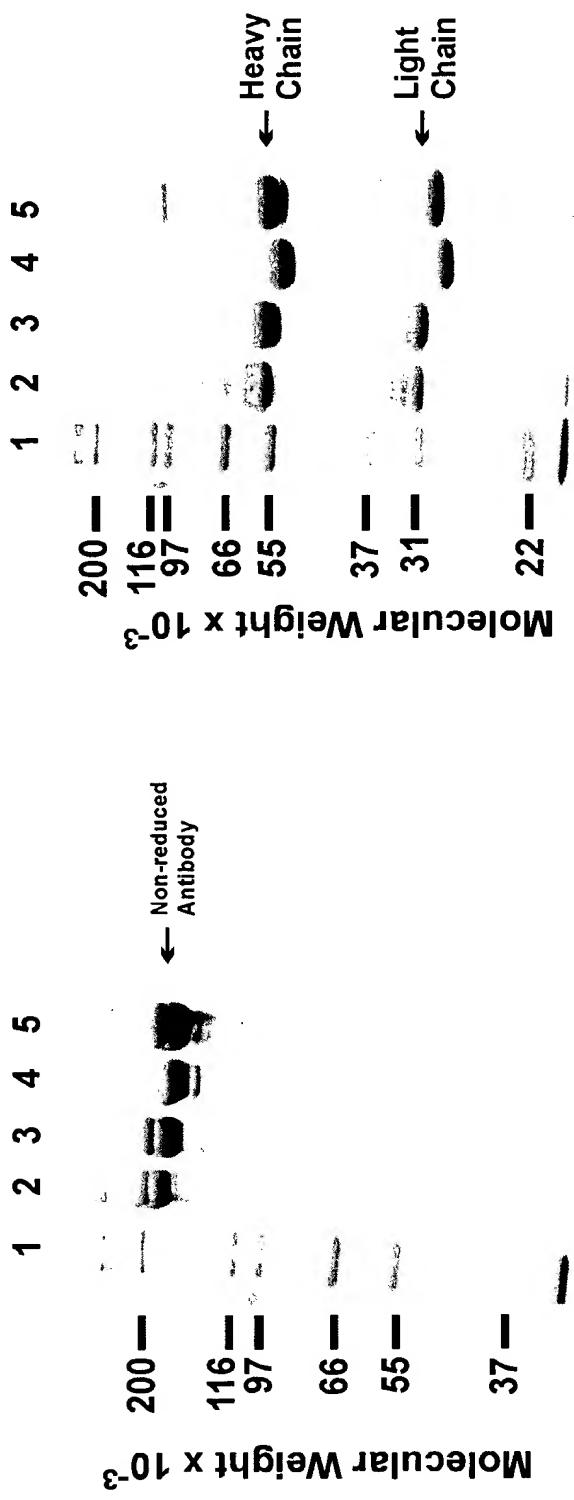
VL sequence of the light chain of murine 44H104 mab:

ATG	GAC	ATG	AGG	GTT	CCT	GCT	CAC	GTT	GGC	TTC	TTG	CTG	TGG	TTT
MET	Asp	MET	Arg	Val	Pro	Ala	His	Val	Phe	Gly	Phe	Leu	Leu	Phe
CCA	GGT	ACC	AGA	TGT	GAC	ATC	CAG	ATG	ACC	CAG	TCT	CCA	TCC	TTA
Pro	Gly	Thr	Arg	Cys	Asp	Ile	Gln	MET	Thr	Gln	Ser	Pro	Ser	TCT
GCC	TCT	CTG	CGA	CAA	AGA	GTC	AGT	CTC	ACT	TGT	CGG	GCA	AGT	CAG
Ala	Ser	Leu	Gly	Gln	Arg	Val	Ser	Leu	Thr	Cys	Arg	Ala	Ser	GAA
AGT	GGT	TAC	TTA	ACC	TGG	CTT	CAG	AAA	CCA	GAT	GGA	ACT	ATT	AAA
Ser	Gly	Tyr	Leu	Thr	Trp	Leu	Gln	Gln	Lys	Pro	Asp	Gly	Thr	CGC
CTG	GTC	TAC	GCC	GCG	TCC	ACT	TTA	GAT	TCT	GGT	GTC	CCA	AAA	TTC
Leu	Val	Tyr	Ala	Ala	Ser	Thr	Leu	Asp	Ser	Gly	Val	Pro	Lys	AGT
GGC	AGT	AGG	TCT	GGG	TCA	GAT	TAT	TCT	CTC	ACC	ATC	AGC	CTT	TCT
Gly	Ser	Arg	Ser	Gly	Ser	Asp	Tyr	Ser	Leu	Thr	Ile	Ser	Ser	Glu
GAA	GAT	TTT	GCA	GAC	TAT	TAC	TGT	CTA	CAA	TAT	ACT	AAT	TAT	CCG
Glu	Asp	Phe	Ala	Asp	Tyr	Tyr	Cys	Leu	Gln	Tyr	Thr	Asp	Tyr	Pro
TTC	GGT	GCT	GGG	ACC	AAG	CTG	GAG	CTG	AAA					ACG
Phe	Gly	Ala	Gly	Thr	Lys	Leu	Glu	Leu	Lys					Leu

FIG. 1B

VH sequence of the heavy chain of murine 44H104 mab:

**FIGURE 9A**  
**A - Non-Reduced**



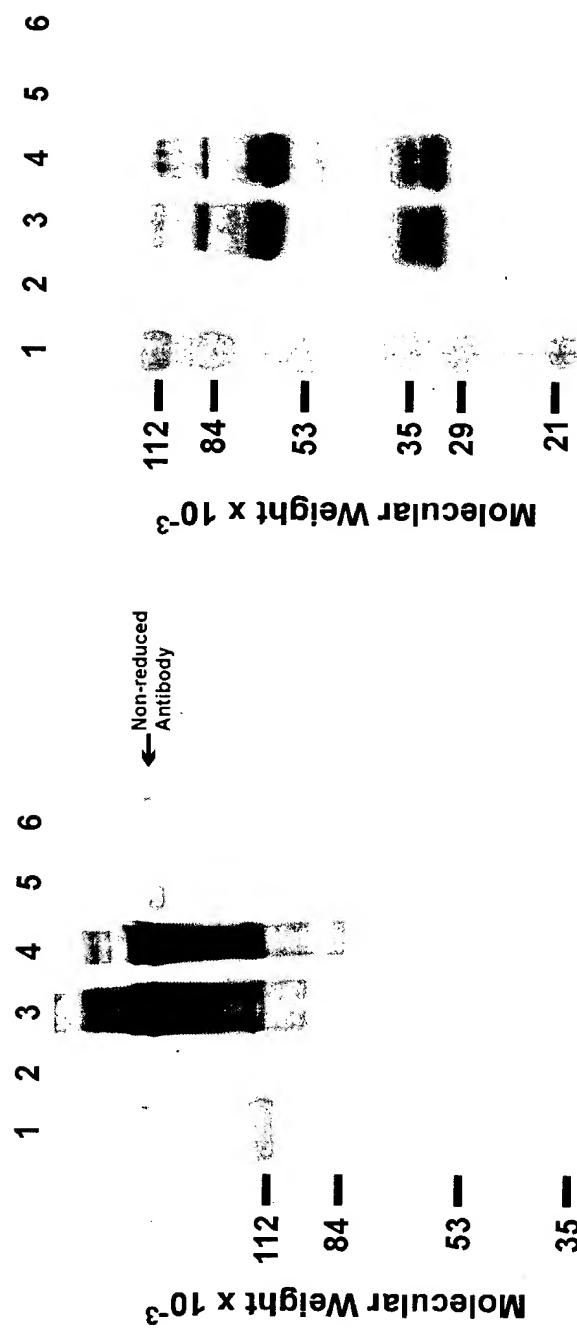
**FIGURE 9B**  
**B - Reduced**

- Lane 1 Molecular weight standards
- Lane 2 Recombinant targeting antibody - Protein A purified
- Lane 3 Recombinant targeting antibody - gel filtration purified
- Lane 4 Mouse monoclonal antibody 44H104
- Lane 5 Human IgG<sub>1</sub>

FIG.9.

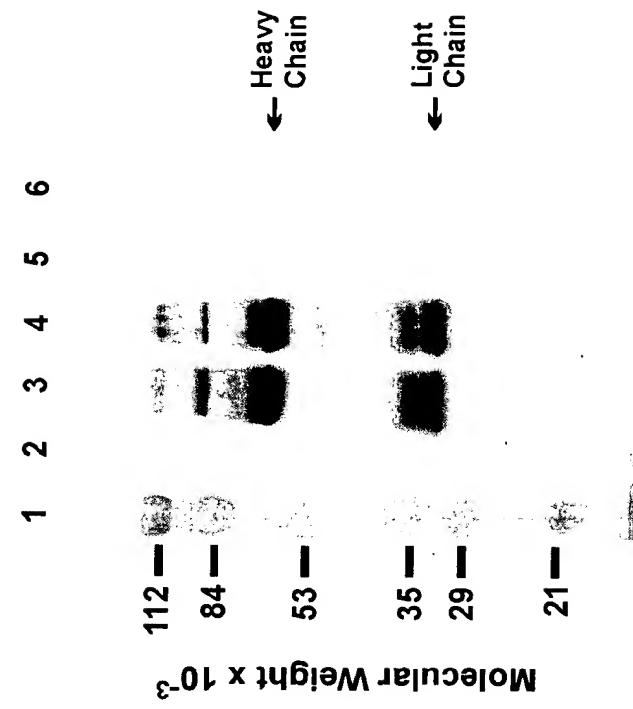
*FIGURE 10 A*

**A - Non-Reduced**



*FIGURE 10 B*

**B - Reduced**



Lane 1 Molecular weight standards

Lane 2 Blank lane

Lane 3 Recombinant targeting antibody - Protein A purified

Lane 4 Recombinant targeting antibody - gel filtration

purified

Lane 5 Mouse monoclonal antibody 44H104

Lane 6 Human IgG<sub>1</sub>

*FIG.10.*

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 1A

VI. sequence of the light chain of murine 44H104 mab:

ATG	GAC	ATG	AGG	GTT	CCT	GCT	CAC	GTT	TTT	GGC	TTC	TTG	TTG	CTC	TGG	TGG	TTT
MET	Asp	MET	Arg	Val	Pro	Ala	His	Val	Phe	Gly	Phe	Leu	Leu	Leu	'Trp	'Trp	Phe
CCA	GGT	ACC	AGA	TGT	GAC	ATC	CAG	ATG	ACC	CAG	TCT	CCA	TCC	TCC	TTA	TCT	TCT
Pro	Gly	Thr	Arg	Cys	Asp	Ile	Gln	MET	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Leu	Ser
GCC	TCT	CTG	GGA	CAA	AGA	GTC	AGT	CTC	ACT	TGT	CGG	GCA	AGT	CAG	GAA	ATT	ATT
Ala	Ser	Leu	Gly	Gln	Arg	Val	Ser	Leu	Thr	Cys	Arg	Ala	Ser	Gln	Glu	Ile	Ile
AGT	GGT	TAC	TTA	ACC	TGG	CTT	CAG	CAG	AAA	CCA	GAT	GGA	ACT	ATT	AAA	CGC	CGC
Ser	Gly	Tyr	Leu	Thr	Trp	Leu	Gln	Gln	Lys	Pro	Asp	Gly	Thr	Ile	Lys	Arg	Arg
C'TG	GTC	TAC	GCC	GCG	TCC	ACT	TTA	GAT	TCT	GGT	GTC	CCA	AAA	AGG	TTC	AGT	AGT
Leu	Val	Tyr	Ala	Ala	Ser	Thr	Leu	Asp	Ser	Gly	Val	Pro	Lys	Arg	Phe	Ser	Ser
GGC	AGT	AGG	TCT	GGG	TCA	GAT	TAT	TCT	CTC	ACC	ATC	AGC	CTT	GAG	TCT	ACG	ACG
Gly	Ser	Arg	Ser	Gly	Ser	Asp	Tyr	Ser	Leu	Thr	Ile	Ser	Ser	leu	Glu	Ser	Ser
GAA	GAT	T'TT	GCA	GAC	TAT	TAC	TGT	CTA	CAA	TAT	ACT	AAT	TAT	CCG	CTC	ACG	ACG
Glu	Asp	Phe	Ala	Asp	Tyr	Tyr	Cys	Leu	Gln	Tyr	Thr	Asp	Tyr	Pro	Leu	Thr	Thr
TTC	GGT	GCT	GGG	ACC	AAG	CTG	GAG	CTG	GAG	CTG	GAG	CTG	GAG	CTG	AAA	AAA	AAA
Phe	Gly	Ala	Gly	Thr	Lys	Leu	Glu	Leu	Glu	Leu	Glu	Leu	Glu	Leu	Lys	Lys	Lys

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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FIG

VH sequence of the heavy chain of murine 44H104 mab:

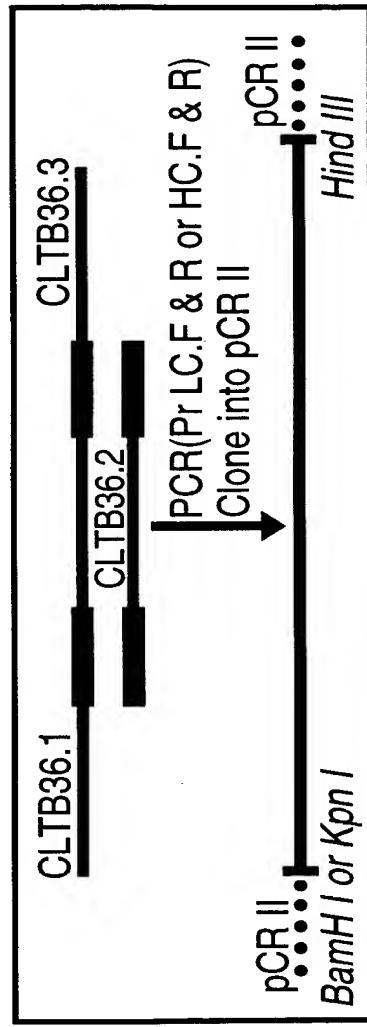
BY	U.S. FIG.	
DRAFTSMAN	CLASS	SUBCLASS

## Assembly of gene encoding CLTB36

Amino acid seq. GPKEPFRDYVDRFYK NKRKRIHIGPGRAFYTTKN

Gene seq.  
 GGTCTAAAGAACCTTTAGAGACTATGTTGATAAGGTTTA  
 TAAGAATAAGAGGAAGAGGATACATATAGGGCCTGGT  
 AGGGCTTTTATACTACTAAAGAATTAAATAA

**FIG.2A**



**FIG.2B**

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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CLTB36.1 CATTATGGATCCGGTCCCTAAAGAACCTTTAGAGACTATGTTGAT  
 AGGTTTTATAAGAAT  
 GCCCTACCGGCCCTATATGTATCCTCTCTTATTCTTATAAAA  
 ACCTA  
 CLTB36.2 AGGGCCTGGTAGGGCTTTTATACTACTAAGAACCTAAATAAAAGCT  
 TTAGCG

Pr LC.F CATTATGGATCCGGTCCCTAA  
*BamH I*  
 Pr HC.F GTCAGGTACCCGGTCCCTAAAGAACCTTTAG  
*Kpn I*  
 Pr R GGCTAAAGCTTTATTAAATT  
*Hind III*

FIG.2C

APPROVED BY DRAFTSMAN	O.G. FIG.
	CLASS SUBCLASS

Assembly of chimeric 44H104-CLTB36 light chain gene

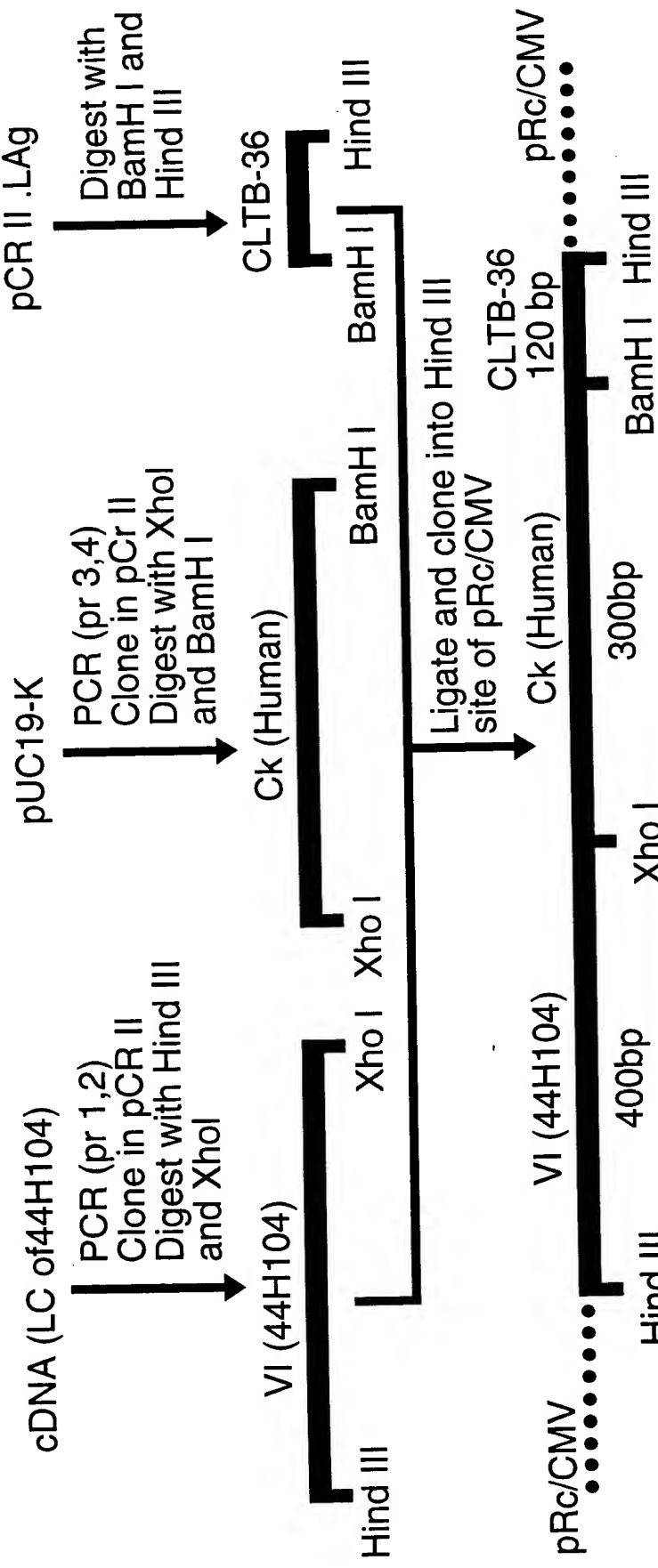


FIG. 3A.

APPROVED	O.G. FIG.
BY	
DRAFTSMAN	CLASS SUBCLASS

*Hind III*  
Pr. 1 AGCCTAAGCTTCCGCCATGGACATGAGGGTTCCCTGCTC

*Xba I*  
Pr. 2 CCGTTTCAGCTCGAGCTTGTCAGCACCAGCGAA

*Xba I*  
Pr. 3 CCTACTCGAGCTGAAACGGACTGGCTGGCATCTGTC

*BamH I*  
Pr. 4 ATTAAAGCTTTACTAGGATCCACACTCCCCTGTTGAAGCTC

FIG.3B.

APPROVED BY	O.G. FIG.	
DRAFTSMAN	CLASS	SUBCLASS

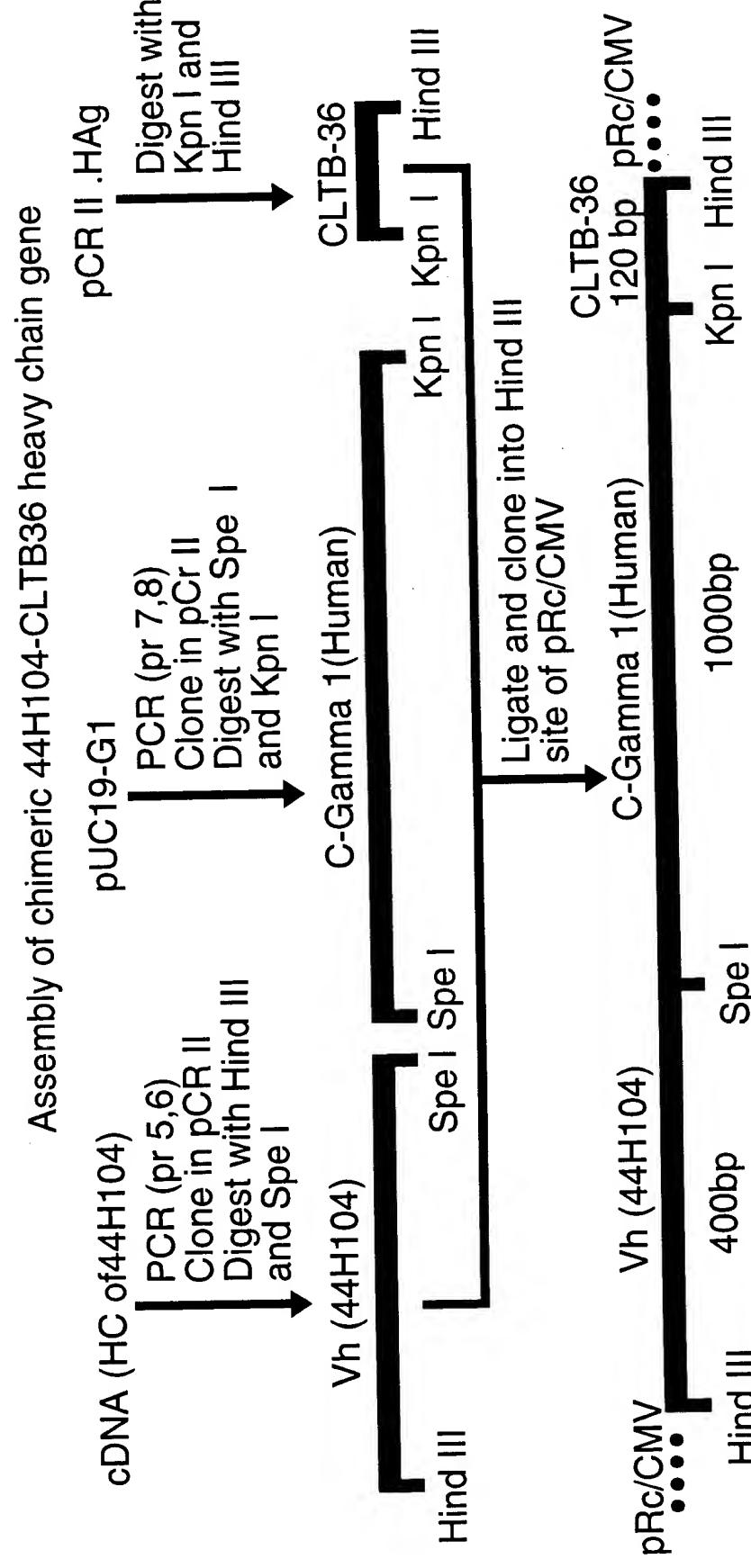


FIG.4A.

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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Pr. 5 AGCTAAGCTTCCGCCATGGCTCCTGGTACTGTTTC  
*Hind III*

Pr. 6 GCGCACTAGTTCCCTGACCCCCAGTAGTCC  
*Spe I*

Pr. 7 GCGCACTAGTGTACCGCCCTCCCTCAGCCTCCACCAAGGGCCATCGGTCTTC  
*Spe I*

Pr. 8 ACGCAAGCTTACTAGGTACCCGGAGACAGGGAGAG  
*Hind III*

**FIG. 4B.**

APPROVED	O.G. FIG.
BY	
DRAFTSMAN	CLASS SUBCLASS

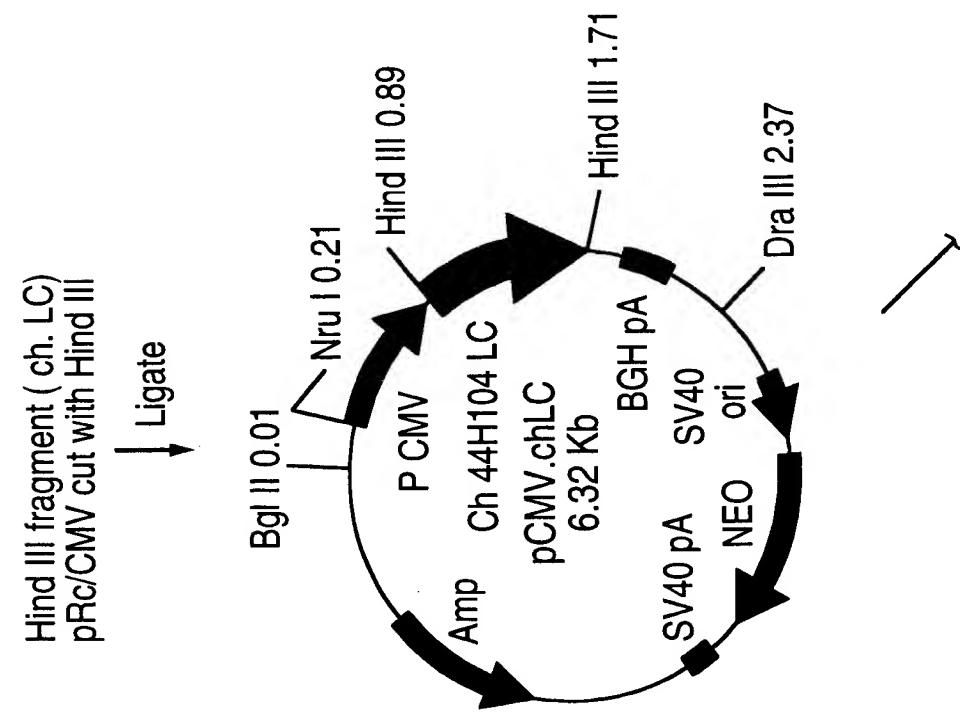
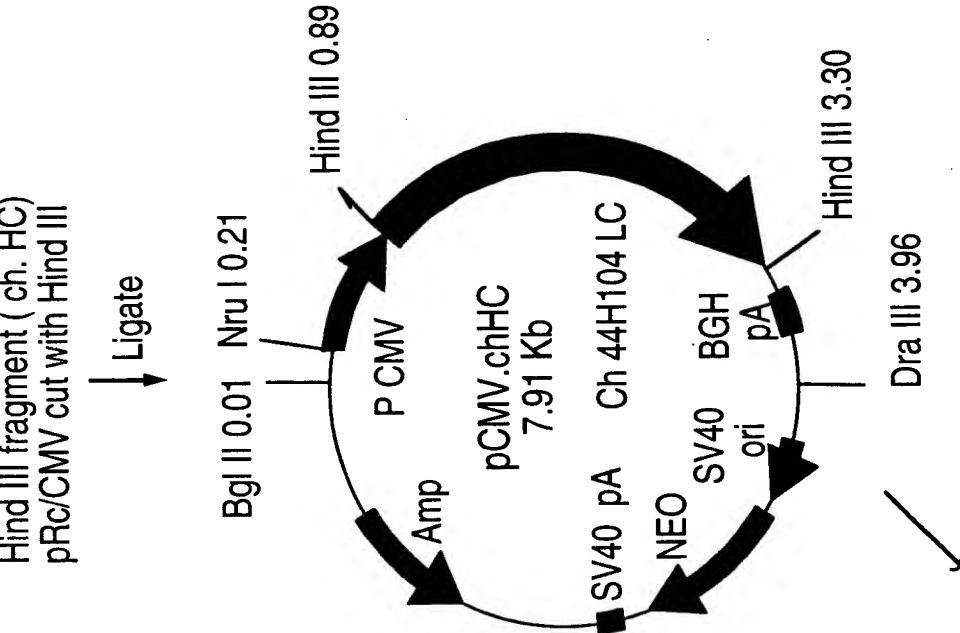


FIG.5A

APPROVED BY	O.G. FIG.
DRAFTSMAN	CLASS SUBCLASS

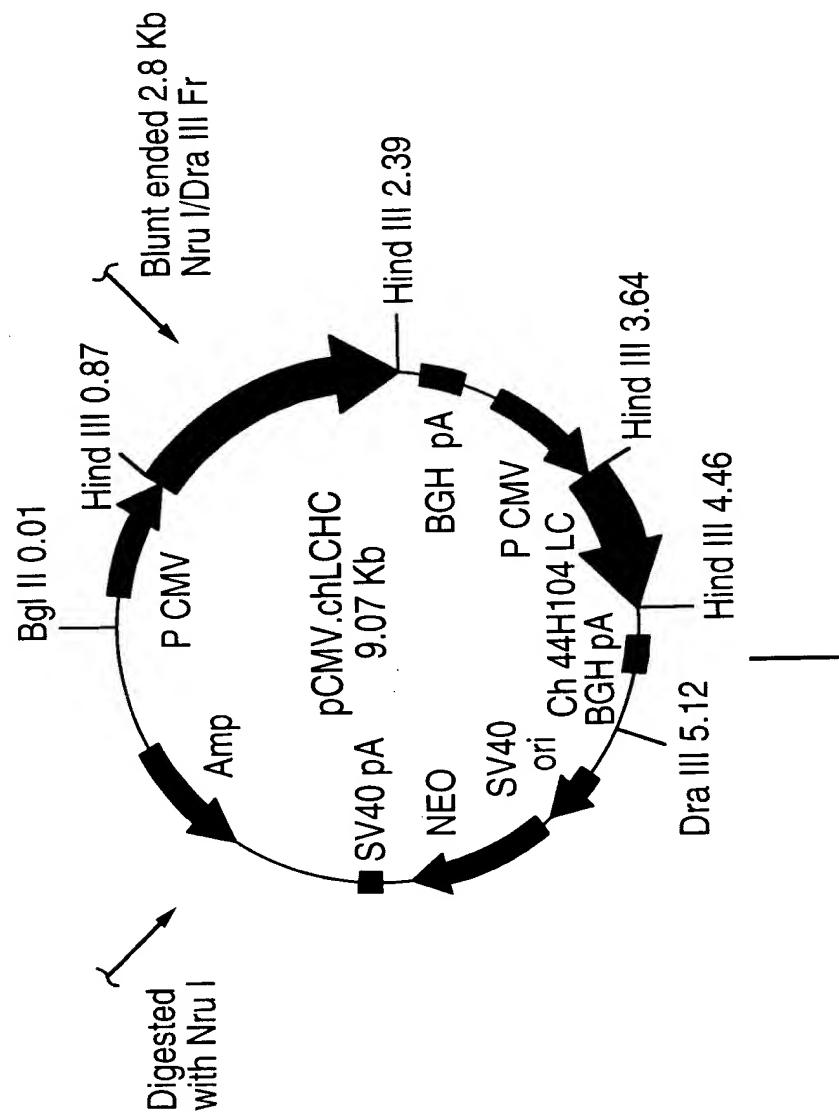


FIG.5B

APPROVED	O.G. FIG.
BY	
DRAFTSMAN	CLASS SUBCLASS

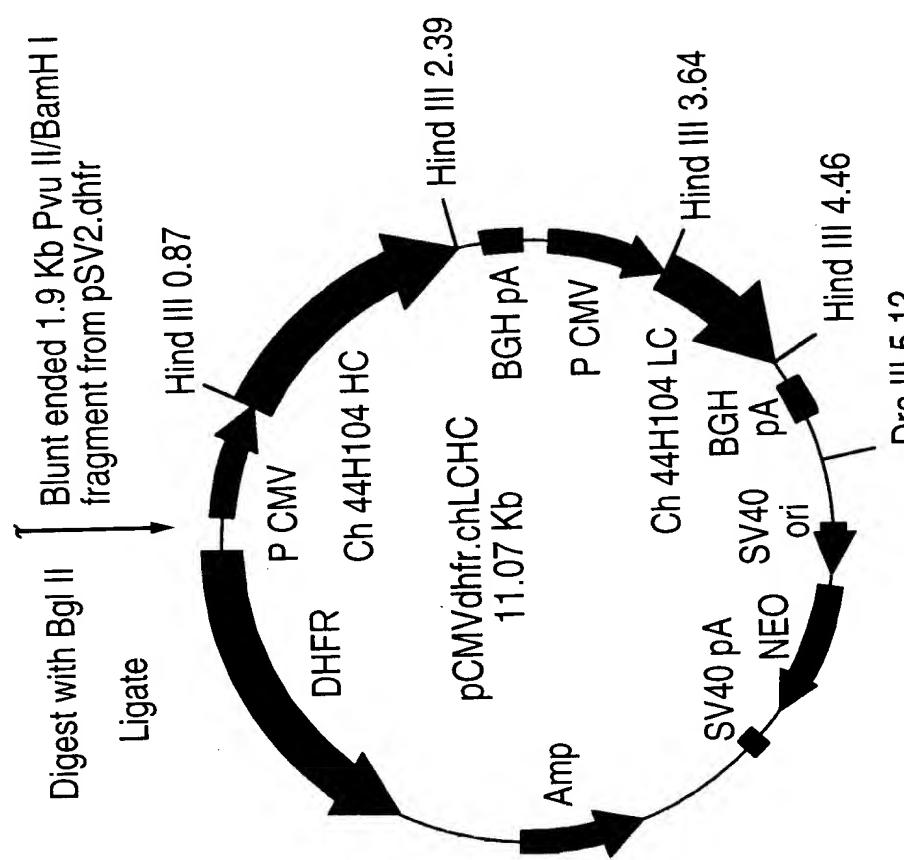


FIG.5C

APPROVED BY	O.G. FIG.	
DRAFTSMAN	CLASS	SUBCLASS

Epitope Recognition on Recombinant H<sup>+</sup>L<sup>+</sup> Human  
Chimeric Antibody Bound to HLA-DR  
Anti-Human IgG

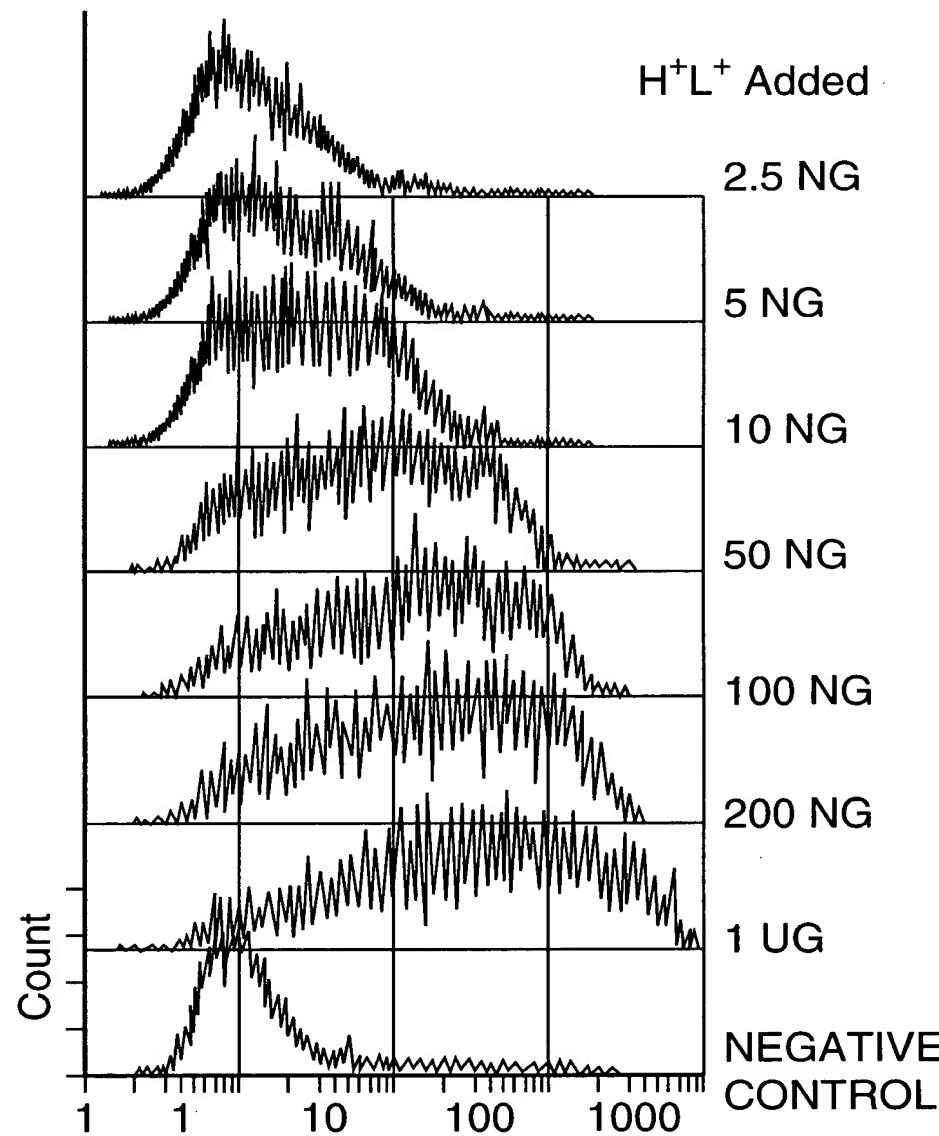
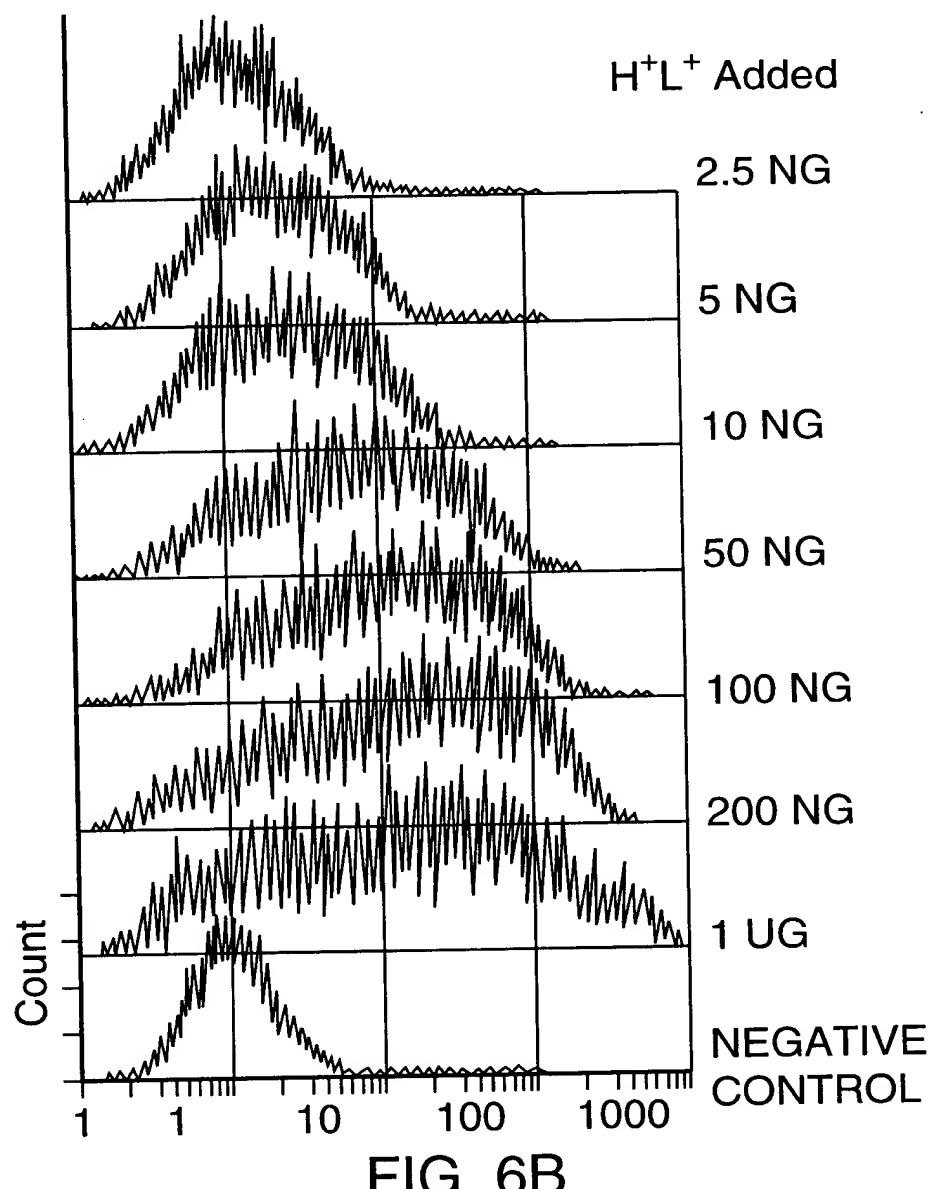


FIG. 6A

APPROVED BY	O.G. FIG.
DRAFTSMAN	CLASS    SUBCLASS

Epitope Recognition on Recombinant H<sup>+</sup>L<sup>+</sup> Human  
Chimeric Antibody Bound to HLA-DR  
Anti-CLTB-36



APPROVED BY	O.G. FIG.	
DRAFTSMAN	CLASS	SUBCLASS

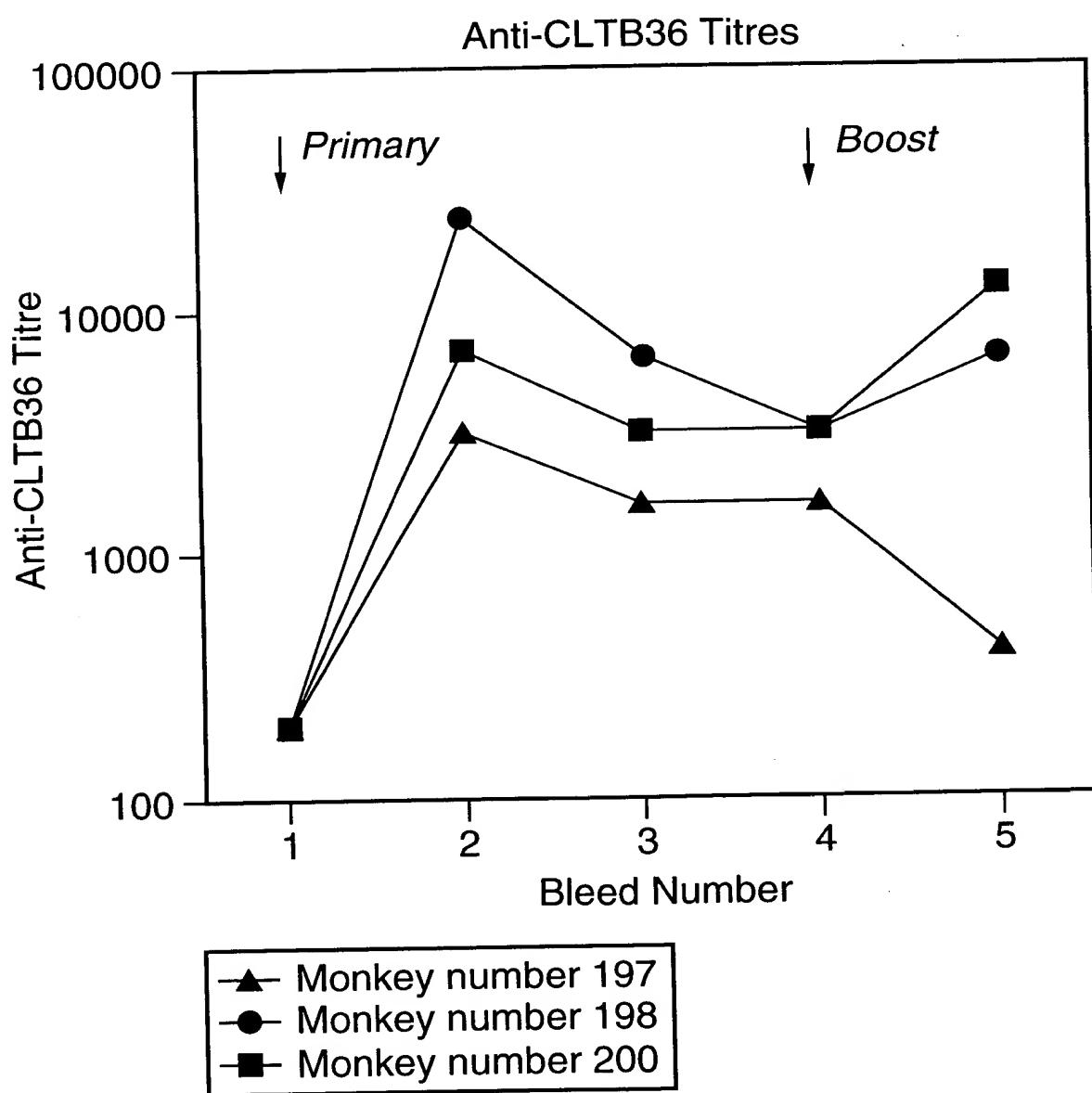


FIG.7

APPROVED BY	O.G. FIG.
DRAFTSMAN	CLASS    SUBCLASS

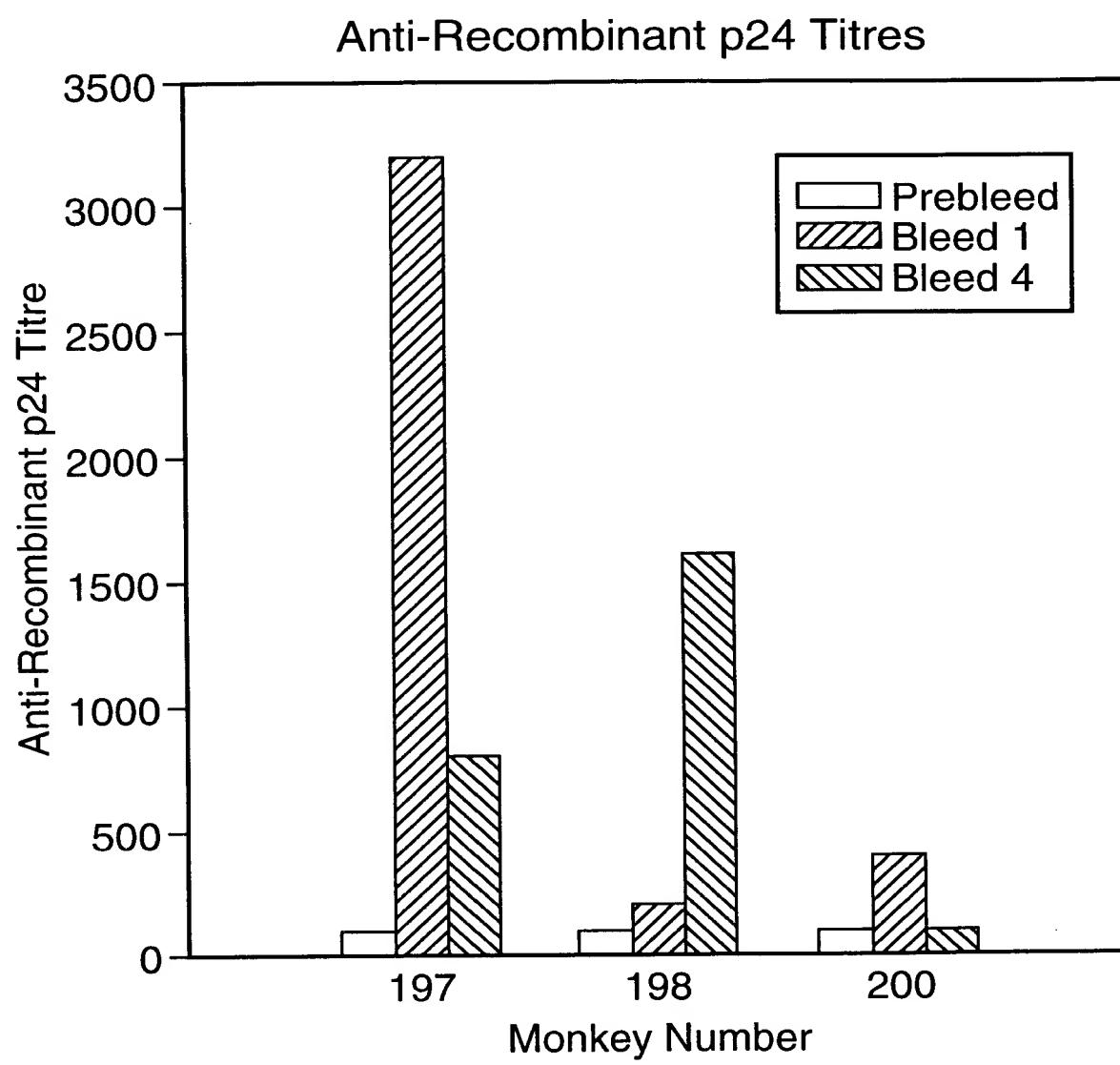


FIG.8

APPROVED BY DRAFTSMAN	O.G. FIG.
	CLASS      SUBCLASS

### A - Non-Reduced

1 2 3 4 5

200 —  
116 —  
97 —  
66 —  
55 —  
37 —

← Non-reduced Antibody

Molecular Weight x 10<sup>3</sup>

### B - Reduced

1 2 3 4 5

200 —  
116 —  
97 —  
66 —  
55 —  
37 —  
31 —  
22 —

← Heavy Chain

← Light Chain

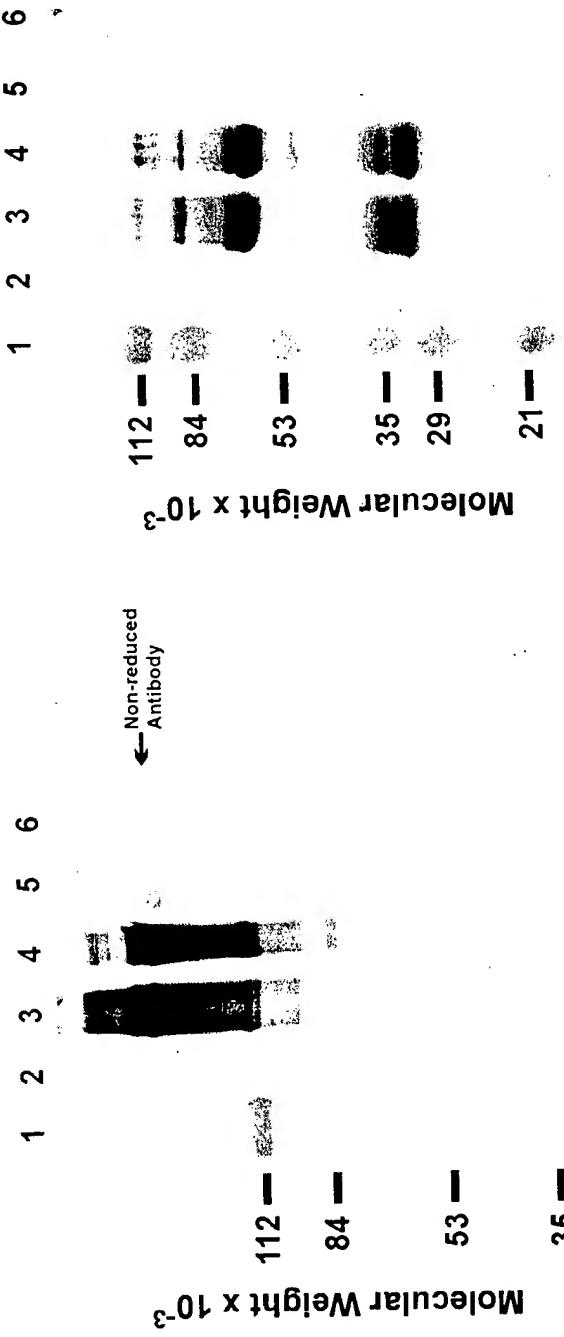
Molecular Weight x 10<sup>3</sup>

- Lane 1 Molecular weight standards
- Lane 2 Recombinant targeting antibody - Protein A purified
- Lane 3 Recombinant targeting antibody - gel filtration purified
- Lane 4 Mouse monoclonal antibody 44H104
- Lane 5 Human IgG<sub>1</sub>

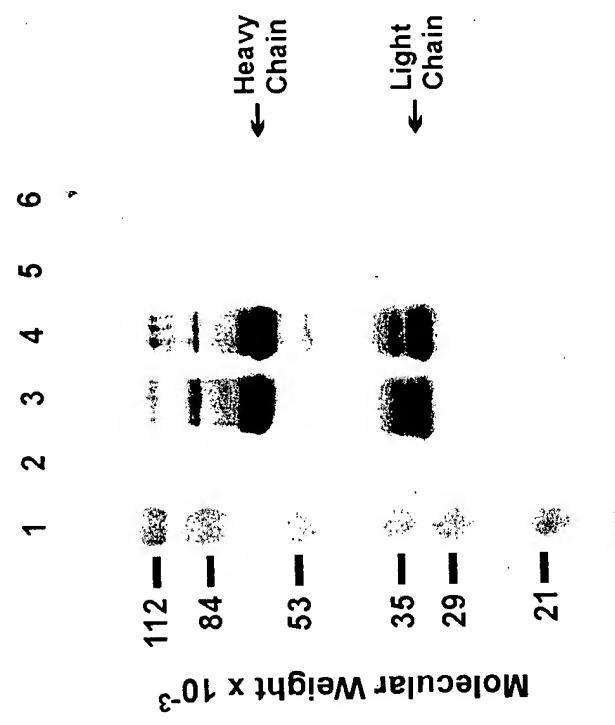
FIG. 9.

APPROVED	O.G. FIG.	
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**A - Non-Reduced**



**B - Reduced**



- Lane 1 Molecular weight standards
- Lane 2 Blank lane
- Lane 3 Recombinant targeting antibody - Protein A purified
- Lane 4 Recombinant targeting antibody - gel filtration purified
- Lane 5 Mouse monoclonal antibody 44H104
- Lane 6 Human IgG<sub>1</sub>

FIG.10.